



# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 3/1/2024 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Name : Frostbite – Snow Foam

#### 1.2. Recommended use and restrictions on use

Recommended use : Automotive cleaning foaming shampoo.  
Restrictions on use : Any use not specified

#### 1.3. Supplier

P & S Sales, Inc.  
20943 Cabot Blvd.  
Hayward, CA 94545  
510-732-2628, M-F 8AM - 5:30 PM  
dave@pssales.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Full text of H statements : see section 16		

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS) :



Signal word (GHS) : Warning

Hazard statements (GHS) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

Precautionary statements (GHS) : P261 - Avoid breathing mist, spray, vapors.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P302+P352 - If on skin: Wash with plenty of soap and water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1)	CAS-No.: 3088-31-1	5 - 15	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317
Alpha olefin sulfonate	CAS-No.: 68439-57-6	5 - 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Amine oxide*	CAS-No.: Trade Secret	1 - 3	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts	CAS-No.: 119345-04-9	1 - 3	Eye Dam. 1, H318
Glycerol (glycerin, glycerine)	CAS-No.: 56-81-5	< 0.3	Not classified
Benzyl acetate	CAS-No.: 140-11-4	< 0.01	Not classified
Citral	CAS-No.: 5392-40-5	< 0.01	Skin Irrit. 2, H315 Skin Sens. 1, H317

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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## SECTION 5: Fire-fighting measures

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### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

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## SECTION 6: Accidental release measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing mist, spray, vapors. Provide good ventilation in process area to prevent formation of vapor. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Frostbite – Snow Foam	
No additional information available	
Alpha olefin sulfonate (68439-57-6)	
No additional information available	
Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)	
No additional information available	
Amine oxide	
No additional information available	
Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)	
No additional information available	
Benzyl acetate (140-11-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Benzyl acetate
ACGIH TWA (mg/m <sup>3</sup> )	61 mg/m <sup>3</sup>
ACGIH OEL TWA [ppm]	10 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
Citral (5392-40-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Citral
ACGIH OEL TWA [ppm]	5 ppm
Remark (ACGIH)	TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
Glycerol (glycerin, glycerine) (56-81-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA - OSHA - Occupational Exposure Limits	
Local name	Glycerin (mist)
OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Glycerol (glycerin, glycerine) (56-81-5)

Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
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#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Industrial and professional. Perform risk assessment prior to use. Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Materials for protective clothing:

Long sleeved protective clothing.

##### Hand protection:

Wear chemically resistant protective gloves. Butyl rubber. Nitrile rubber gloves.

##### Eye protection:

Chemical goggles or safety glasses.

##### Skin and body protection:

Wear suitable protective clothing.

##### Respiratory protection:

None required for normal handling of material. Consult with an industrial hygienist / safety professional to determine appropriate respiratory protection needs based on the risk of inhalation.

##### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Opaque
Color	: White
Odor	: Floral
Odor threshold	: No data available
pH	: 9.5
Melting point	: 212 °F
Freezing point	: 32 °F
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: 0.999
Solubility	: Soluble in water
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic	: 100 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Alpha olefin sulfonate (68439-57-6)

LD50 Oral rat	1300 – 2400 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
ATE (oral)	1300 mg/kg body weight

#### Amine oxide

LD50 Oral rat	> 2000 mg/kg
LD50 Dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

#### Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

LD50 Oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:
LD50 Dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Benzyl acetate (140-11-4)

LD50 Oral rat > 2000 mg/kg

LD50 Dermal rabbit > 5000 mg/kg

### Citral (5392-40-5)

LD50 Oral rat > 5000 mg/kg

LD50 Dermal rat 2250 mg/kg

ATE (dermal) 2250 mg/kg body weight

### Glycerol (glycerin, glycerine) (56-81-5)

LD50 Oral rat 12600 mg/kg body weight Animal: rat, Animal sex: female

LD50 Dermal rabbit > 10000 mg/kg

ATE (oral) 12600 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.  
pH: 9.5

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 9.5

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

### Benzyl acetate (140-11-4)

NOAEL (chronic,oral,animal/male,2 years) > 300 mg/kg body weight

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified

### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

NOAEL (animal/female, F0/P) 300 mg/kg body weight Animal: rabbit, Animal sex: female, Guideline: other:

### Benzyl acetate (140-11-4)

NOAEL (animal/male, F0/P) > 900 mg/kg

NOAEL (animal/female, F0/P) > 900 mg/kg

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

LOAEL (oral, rat, 90 days) > 250 mg/kg body weight Animal: rat, Guideline: other:

NOAEL (oral, rat, 90 days) > 50 mg/kg body weight Animal: rat, Guideline: other:

NOAEC (inhalation, rat, gas, 90 days) ≥

### Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

NOAEL (oral, rat, 90 days) dog

NOAEL (subacute, oral, animal/male, 28 days) 128 mg/kg body weight

### Benzyl acetate (140-11-4)

NOAEL (subchronic, oral, animal/male, 90 days) 500 (500 – 1000) mg/kg body weight

NOAEL (subchronic, oral, animal/female, 90 days) 250 (250 – 1000) mg/kg body weight

Aspiration hazard : Not classified

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic	: 100 mm <sup>2</sup> /s
Likely routes of exposure	: Skin and eye contact. Inhalation.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

##### Alpha olefin sulfonate (68439-57-6)

EC50 crustacea	4.14 – 4.95 mg/l 48 h
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##### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

LC50 fish 1	> 25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
NOEC (chronic)	20.059 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	36.507 mg/l Test organisms (species): other: Duration: '28 d'

##### Amine oxide

LC50 fish 1	134 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 crustacea	10.4 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	31.8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [2]	3.1 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

##### Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

LC50 fish 1	6.2 mg/l 96-hour, rainbow trout (O. mykiss)
EC50 - Other aquatic organisms [2]	1.64 mg/l 48-hour, Daphnia magna
NOEC (chronic)	0.65 mg/l 7- day chronic toxicity study with Ceriodaphnia dubia

##### Glycerol (glycerin, glycerine) (56-81-5)

LC50 fish 1	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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#### 12.2. Persistence and degradability

##### Frostbite – Snow Foam

Persistence and degradability	Not established.
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##### Glycerol (glycerin, glycerine) (56-81-5)

Persistence and degradability	Readily biodegradable.
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#### 12.3. Bioaccumulative potential

##### Frostbite – Snow Foam

Bioaccumulative potential	Not established.
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##### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

Log Pow	1.14 Source: EPISUITE
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# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

Log Pow 7.84 Source: Episuite

### Glycerol (glycerin, glycerine) (56-81-5)

Log Pow -1.75 Source: ECHA

#### 12.4. Mobility in soil

### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

Mobility in soil 34.35 Source: EPISUITE

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

#### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

#### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

No data available

#### TDG

No data available

#### IMDG

No data available

#### IATA

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, or are otherwise TSCA compliant.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### Alpha olefin sulfonate (68439-57-6)

Listed on the Canadian DSL (Domestic Substances List)

##### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

Listed on the Canadian DSL (Domestic Substances List)

##### Amine oxide

Listed on the Canadian DSL (Domestic Substances List)

##### Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

Listed on the Canadian DSL (Domestic Substances List)

##### Benzyl acetate (140-11-4)

Listed on the Canadian DSL (Domestic Substances List)

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Citral (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

### Glycerol (glycerin, glycerine) (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

#### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Citral (5392-40-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Glycerol (glycerin, glycerine) (56-81-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

#### Ethanol, 2-[2-(dodecyloxy)ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (3088-31-1)

Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

#### Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated, sodium salts (119345-04-9)

Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

### Benzyl acetate (140-11-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Citral (5392-40-5)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on Taiwan National Chemical Inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Glycerol (glycerin, glycerine) (56-81-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. WHMIS: The Workplace Hazardous Materials Information System.

Other information : None.

### Full text of H-phrases

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)

# Frostbite – Snow Foam

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations and acronyms	
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.